SPEC® CFP2006 Result

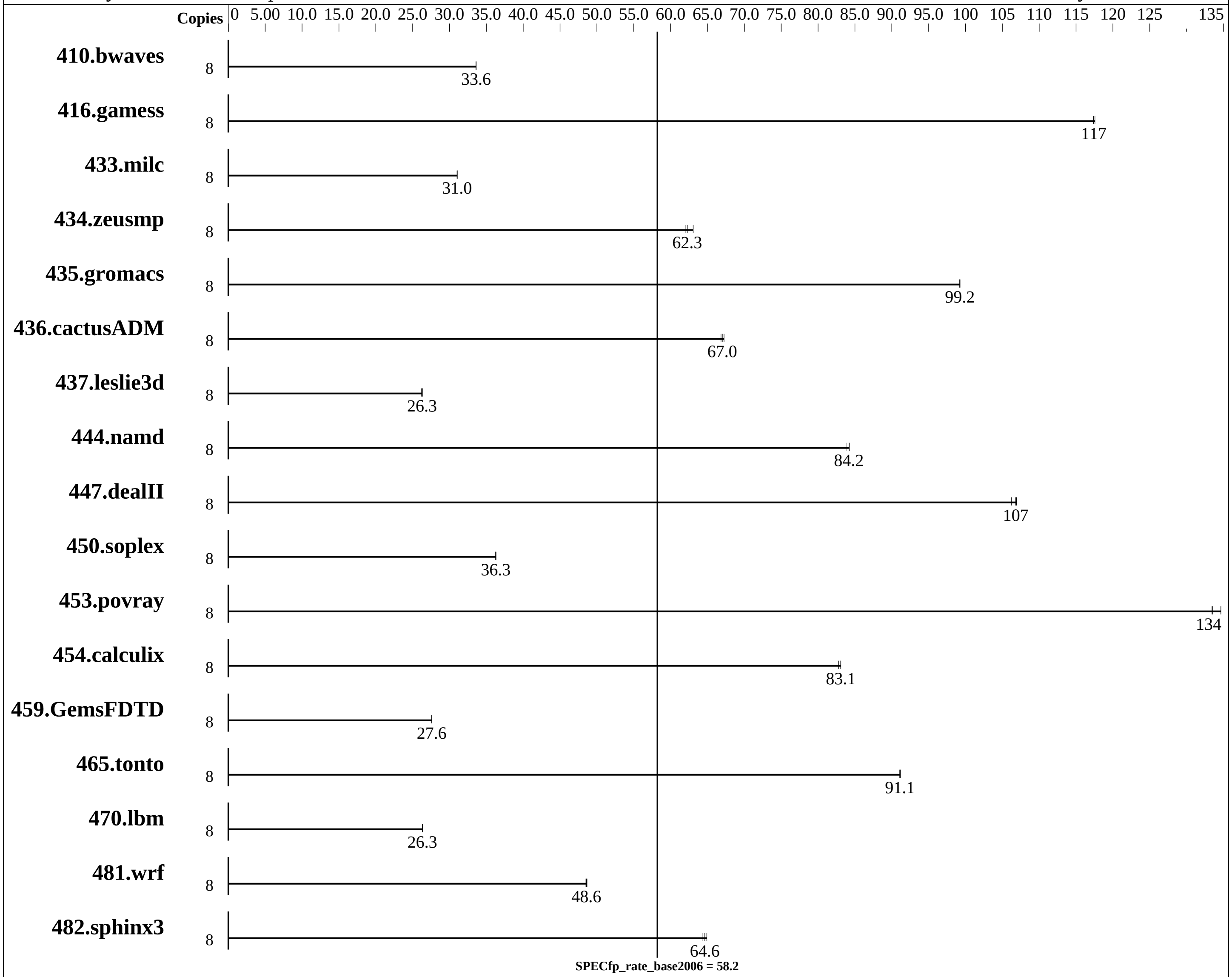
IBM Corporation

IBM System x3650 (Intel Xeon E5405)

SPECfp®_rate2006 = Not Run

SPECfp_rate_base2006 = 58.2

CPU2006 license: 11		**Test date:**	Nov-2007
Test sponsor:	IBM Corporation	**Hardware Availability:**	Jan-2008
Tested by:	IBM Corporation	**Software Availability:**	Nov-2007



Hardware

CPU Name:	Intel Xeon E5405
CPU Characteristics:	1333MHz system bus
CPU MHz:	1995
FPU:	Integrated
CPU(s) enabled:	8 cores, 2 chips, 4 cores/chip
CPU(s) orderable:	1,2 chips
Primary Cache:	32 KB I + 32 KB D on chip per core
Secondary Cache:	12 MB I+D on chip per chip, 6 MB shared / 2 cores

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Software

Operating System:	SuSE Linux Enterprise Server 10 (x86_64), kernel 2.6.16.21-0.8-smp
Compiler:	Intel C++ and Fortran Compiler 10.1 for Linux Build 20070913 Package ID: l_cc_p_10.1.008, l_fc_p_10.1.008
Auto Parallel:	No
File System:	ReiserFS
System State:	Multi-user, run level 3
Base Pointers:	64-bit

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L3 Cache: None
Other Cache: None
Memory: 16 GB (8 x 2 GB DDR2-5300F ECC)
Disk Subsystem: 1 x 36 GB SAS, 15000 RPM
Other Hardware: None

Peak Pointers: Not Applicable
Other Software: Binutils 2.17.50.0.15

Results Table

	Base							Peak						
Benchmark	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio	Copies	Seconds	Ratio	Seconds	Ratio	Seconds	Ratio
410.bwaves	8	**3236**	**33.6**	3237	33.6	3233	33.6							
416.gamess	8	1332	118	**1334**	**117**	1335	117							
433.milc	8	**2366**	**31.0**	2365	31.1	2367	31.0							
434.zeusmp	8	1175	62.0	1154	63.1	**1169**	**62.3**							
435.gromacs	8	**576**	**99.2**	576	99.2	575	99.3							
436.cactusADM	8	**1427**	**67.0**	1430	66.8	1422	67.2							
437.leslie3d	8	2874	26.2	**2860**	**26.3**	2857	26.3							
444.namd	8	**762**	**84.2**	766	83.8	762	84.2							
447.dealII	8	856	107	862	106	**857**	**107**							
450.soplex	8	**1839**	**36.3**	1840	36.3	1838	36.3							
453.povray	8	319	133	**319**	**134**	316	135							
454.calculix	8	**794**	**83.1**	798	82.8	794	83.1							
459.GemsFDTD	8	3077	27.6	3075	27.6	**3077**	**27.6**							
465.tonto	8	863	91.2	865	91.0	**864**	**91.1**							
470.lbm	8	4177	26.3	**4175**	**26.3**	4175	26.3							
481.wrf	8	1837	48.6	**1840**	**48.6**	1842	48.5							
482.sphinx3	8	2402	64.9	2422	64.4	**2412**	**64.6**							

Results appear in the order in which they were run. Bold underlined text indicates a median measurement.

General Notes

```
All benchmarks compiled in 64-bit mode
Hardware Sector Prefetch Disabled and Adjacent Sector Prefetch Disabled
OMP_NUM_THREADS set to number of cores
KMP_AFFINITY set to physical,0
KMP_STACKSIZE set to 64M
Powersaved dameon was disabled in OS
taskset utility used to bind CPU(s) to processes
```

Base Compiler Invocation

C benchmarks:
 icc

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Base Compiler Invocation (Continued)

C++ benchmarks:
`icpc`

Fortran benchmarks:
`ifort`

Benchmarks using both Fortran and C:
`icc ifort`

Base Portability Flags

410.bwaves: -DSPEC_CPU_LP64
416.gamess: -DSPEC_CPU_LP64
433.milc: -DSPEC_CPU_LP64
434.zeusmp: -DSPEC_CPU_LP64
435.gromacs: -DSPEC_CPU_LP64 -nofor_main
436.cactusADM: -DSPEC_CPU_LP64 -nofor_main
437.leslie3d: -DSPEC_CPU_LP64
444.namd: -DSPEC_CPU_LP64
447.dealII: -DSPEC_CPU_LP64
450.soplex: -DSPEC_CPU_LP64
453.povray: -DSPEC_CPU_LP64
454.calculix: -DSPEC_CPU_LP64 -nofor_main
459.GemsFDTD: -DSPEC_CPU_LP64
465.tonto: -DSPEC_CPU_LP64
470.lbm: -DSPEC_CPU_LP64
481.wrf: -DSPEC_CPU_LP64 -DSPEC_CPU_CASE_FLAG -DSPEC_CPU_LINUX
482.sphinx3: -DSPEC_CPU_LP64

Base Optimization Flags

C benchmarks:
`-fast`

C++ benchmarks:
`-fast`

Fortran benchmarks:
`-fast`

Benchmarks using both Fortran and C:
`-fast`

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The flags file that was used to format this result can be browsed at
http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.11.html

You can also download the XML flags source by saving the following link:
http://www.spec.org/cpu2006/flags/Intel-ic10.1-FP-intel64-linux-flags.20090714.11.xml

For questions about this result, please contact the tester.
For other inquiries, please contact webmaster@spec.org.

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